***What is Pseudomonas fluorescens?***

**Description:** *Pseudomonas fluorescens*  is a gram negative rod shaped bacterium commonly found in decaying organic material such as leaves and soil, plants and water surfaces. It has multiple flagella that it uses for motility. As the name suggests *pseudomonas fluorescens* contain soluble green fluorescent pigments called pyoverdin that are produced when the iron concentration in the surrounding environment .

**Growth requirements:** Optimal temperatures for growth of *Pseudomonas fluorescens* are 25-30 degrees [Celsius](http://en.wikipedia.org/wiki/Celsius). It is an [obligate](http://en.wikipedia.org/wiki/Obligate_aerobe) aerobe bacteria so require oxygen to survive, It is unable to grow under anaerobic conditions however some strains are capable of using nitrogen as the final [electron acceptor](http://en.wikipedia.org/wiki/Electron_acceptor) instead of oxygen during [cellular respiration](http://en.wikipedia.org/wiki/Cellular_respiration).

**Why is it of concern?**

**How can it be of uses in biotechnological uses ?**